

METHOD AND APPARATUS FACILITATING OPERATION OF  
A RESONANT TUNNELING DEVICE AT A HIGH FREQUENCY

ABSTRACT OF THE DISCLOSURE

An apparatus includes a circuit having first and second portions which are each coupled between first and second nodes. The first portion includes a resonant tunneling device, and the second portion has a reactance that includes, at a selected frequency, a complex conjugate reactance of a reactance of the resonant tunneling device. The complex conjugate reactance substantially cancels the reactance of the resonant tunneling device at the selected frequency.